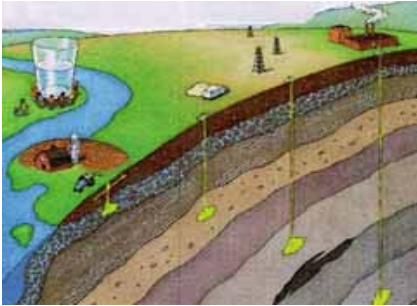


# The UIC National Database

## Ground Water Protection Council Technical Meeting January 2007



Ann Codrington, Chief  
Prevention Branch  
Office of Ground Water and Drinking Water



# UIC Program Basics

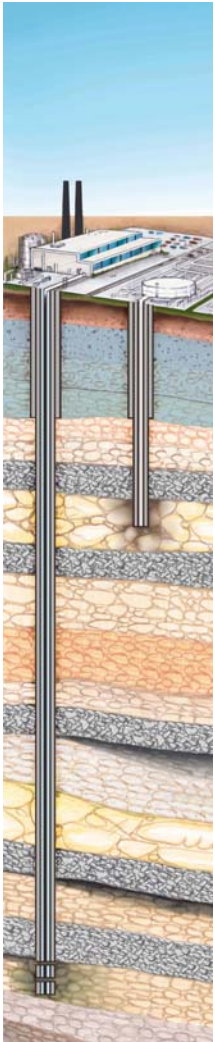
The mission of the UIC program is to protect underground sources of drinking water (“USDWs”) from contamination

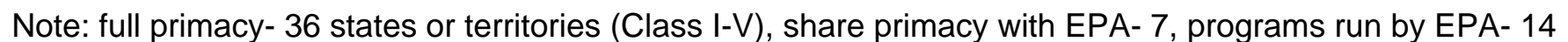
A large universe of wells and diverse fluid streams:

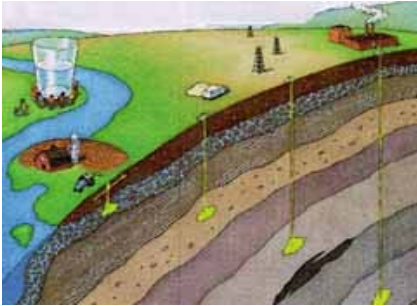
Billions of gallons of hazardous, industrial, and municipal waste annually

~1 trillion gallons of oil field brine injected annually

> 600,000 shallow injection wells are used nationwide

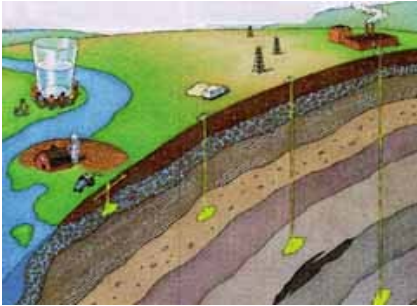






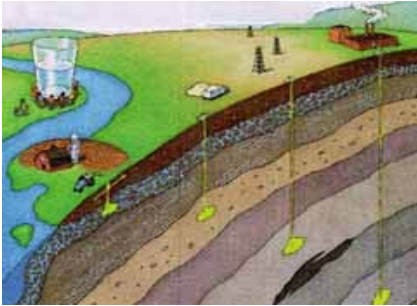
# How EPA Obtains UIC Data

<b>Reporting</b>	<b>Process</b>	<b>Format it is received in</b>
Program Management Information (7520 forms 1 through 4)	Primacy agency completes and submits information on forms 1-4 to Region; Region submits to HQ	Paper
Online Reporting of Inventory and Measures	State or Region enters inventory and measures information	Electronic-Web entry (password protected)
Ad Hoc Requests	EPA HQ requests assistance from Regions and/or States	Email or spreadsheet



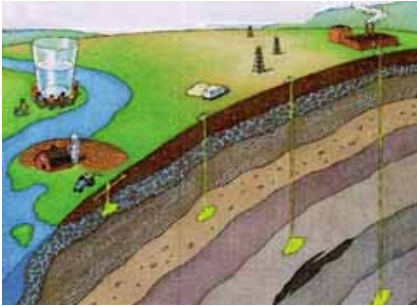
# How Can a Database Help?

- Manage the UIC program efficiently
  - No longer need to report inventory and PAMs annually
  - No longer need to report 7520 information
  - Ad hoc requests would be eliminated in most cases
  - No need for a separate Regional compliance data system (ICIS)
- Improve the quality of UIC data
- Improve the ability to analyze data at the National level



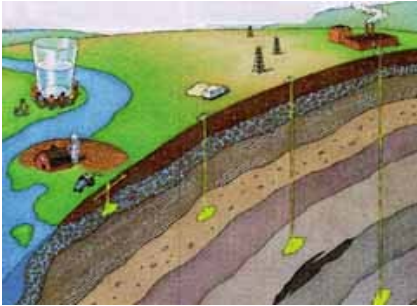
# What Will EPA Do With UIC Information?

- Integrate UIC information with other EPA programs:
  - RCRA
  - TRI
  - ICIS
  - FRS
- Integrate UIC data with other water data to improve source water protection
- Integrate UIC data with other Federal programs (e.g., DOE)



# What Will EPA Do With UIC Information? (cont'd)

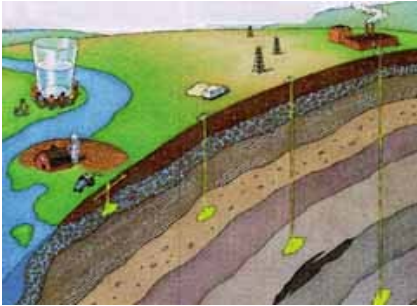
- Respond to reporting required by the Office of Management and Budget's Program Assessment Rating Tool (PART)
- Respond to reporting required by EPA for Strategic Plan Program Activity Measures (PAMs)
- Determine grant allocation (STAG)
- Respond to ad hoc information requests for National data
- Target Guidance



How could the data be used to show the value of the UIC program?

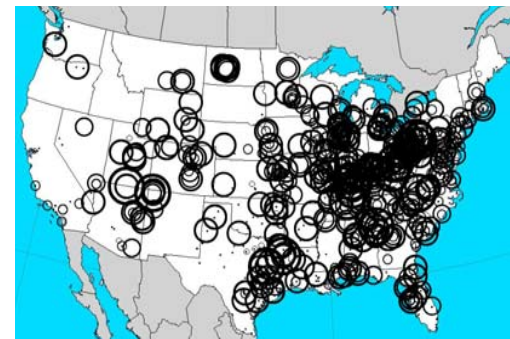
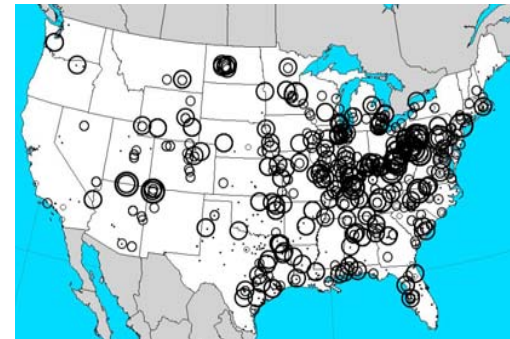
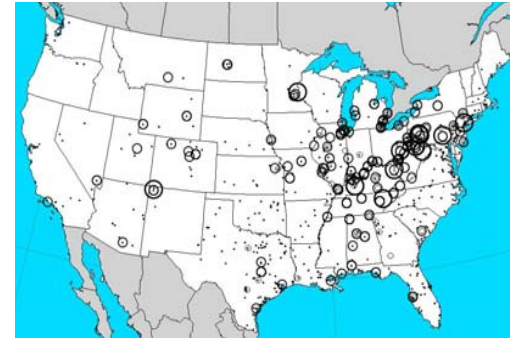
- Budget Requests
- Program Effectiveness
- Emerging Well Types (CO<sub>2</sub>, DWTR, ASR)
- Program Priorities

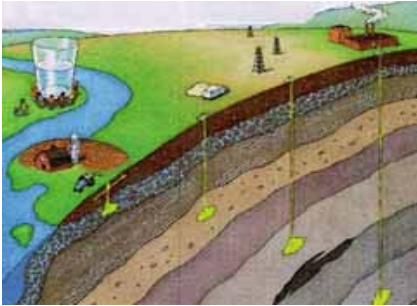




## Future Database Needs: Geologic Sequestration of CO<sub>2</sub>

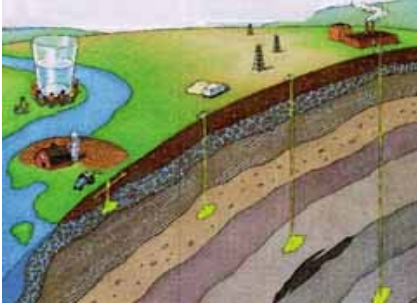
- Geologic sequestration is bringing attention to the UIC program
- The database could help:
  - Identify where existing wells are located
  - Quantify CO<sub>2</sub> injected
  - Respond to public concerns about safety





## Future Database Needs: Residuals Management and ASR

- There is likely to be some overlap in sites suitable for residuals injection, ASR, and CO<sub>2</sub> injection
- The database could play a role:
  - Identify where existing wells are located
  - Quantify residuals injected; ASR wells
  - Analyze trends to better focus resources on challenging program activities
  - Finding solutions for smaller public water systems



# Next Up...

Update on the status of the UIC database